CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 22.10.2021

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of Work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : September- 2021

Date of Testing : 20.10.2021 to 22.10.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.

PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 22.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of Work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Date of Testing : 22.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	95	9.50	17.30	82.7	75-100
1.18	162	16.20	33.50	66.5	55-90
600 Micron	221	22.10	55.60	44.4	35-59
300 Micron	192	19.20	74.80	25.2	8-30
150 Micron	178	17.80	92.60	7.4	0-10

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 22.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of Work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Date of Testing : 22.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2415	48.3	52.1	47.9	25-55
4.75	1968	39.4	91.4	8.6	0-10

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Job No.: CACE/BBMP/JT/W No.04/2021-22 Date 22.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of Work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Date of Testing 22.10.2021

Material : Sand(Plastering) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	13.5	1.35	1.35	98.7	95-100
2.36	19	1.90	3.25	96.8	95-100
1.18	21	2.10	5.35	94.7	90-100
600 Micron	70	7.00	12.35	87.7	80-100
300 Micron	265	26.50	38.85	61.2	20-65
150 Micron	541	54.10	92.95	7.1	0-15

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Job No.: CACE/BBMP/JTS/W No.04/2021-22 Date 22.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of Work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Date of Testing 22.10.2021

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	35	3.50	5.60	94.4	70-100
600 Micron	85	8.50	14.10	85.9	40-100
300 Micron	245	24.50	38.60	61.4	5-70
150 Micron	478	47.80	86.40	13.6	0-15

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 22.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of Work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Date of Testing : 22.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8562	57.08	58.40	41.60	30-70
10	3421	22.81	81.21	18.79	10-35
4.75	2236	14.91	96.11	3.89	0-5

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 22.11.2021

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore
Name of Work	: Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.
Reference to BIS codes	: IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks- Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	: 18.11.2021 to22.11.2021

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	3.9	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	3.8	
3	4.2	
4	3.9	
5	4.2	
Average of 5 bricks	4.0	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.5	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	11.3	
3	10.6	
4	10.4	
5	10.9	
Average of 5 bricks	10.7	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4625	4520 to 4680 mm
2	Width	2165	2160 to 2240 mm
3	Height	1395	1360 to 1440 mm

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 10-Nov-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore
Name of the work	: Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.
Sample ID	: Cement Concrete for Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	3-Nov-21	10-Nov-21	8.169	398.6	17.72
2	3-Nov-21	10-Nov-21	8.184	386.9	17.20
3	3-Nov-21	10-Nov-21	8.156	405.2	18.01

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 1-Dec-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore
Name of the work	: Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.
Sample ID	: Cement Concrete for Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	3-Nov-21	1-Dec-21	8.188	606.3	26.95
2	3-Nov-21	1-Dec-21	8.169	613.2	27.25
3	3-Nov-21	1-Dec-21	8.152	585.3	26.01

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 12-Nov-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore
Name of the work	: Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.
Sample ID	: Cement Concrete for Column
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	5-Nov-21	12-Nov-21	8.169	389.6	17.32
2	5-Nov-21	12-Nov-21	8.152	405.2	18.01
3	5-Nov-21	12-Nov-21	8.149	416.3	18.50

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 22-Nov-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of the work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Sample ID : Cement Concrete for Column

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15-Nov-21	22-Nov-21	8.188	392.6	17.45
2	15-Nov-21	22-Nov-21	8.169	384.5	17.09
3	15-Nov-21	22-Nov-21	8.172	412.3	18.32

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 13-Dec-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of the work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Sample ID : Cement Concrete for Column

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15-Nov-21	13-Dec-21	8.169	597.5	26.56
2	15-Nov-21	13-Dec-21	8.184	600.9	26.71
3	15-Nov-21	13-Dec-21	8.152	613.3	27.26

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 24-Nov-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of the work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Sample ID : Cement Concrete for Footing

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17-Nov-21	24-Nov-21	8.188	390.3	17.35
2	17-Nov-21	24-Nov-21	8.169	400.1	17.78
3	17-Nov-21	24-Nov-21	8.154	412.3	18.32

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Job No: CACE/BBMP/JT/W No.04/2021-22

Date: 15-Dec-21

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	: **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore
Name of the work	: Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.
Sample ID	: Cement Concrete for Footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17-Nov-21	15-Dec-21	8.169	596.6	26.52
2	17-Nov-21	15-Dec-21	8.184	613.2	27.25
3	17-Nov-21	15-Dec-21	8.152	625.2	27.79

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 10-Dec-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of the work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Sample ID : Cement Concrete for Coping

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	3-Dec-21	10-Dec-21	8.144	248.7	11.05
2	3-Dec-21	10-Dec-21	8.169	269.3	11.97
3	3-Dec-21	10-Dec-21	8.181	276.2	12.28

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Job No: CACE/BBMP/JT/W No.04/2021-22 Date: 31-Dec-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

Name of the work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Sample ID : Cement Concrete for Coping

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	3-Dec-21	31-Dec-21	8.145	365.1	16.23
2	3-Dec-21	31-Dec-21	8.184	389.6	17.32
3	3-Dec-21	31-Dec-21	8.169	371.2	16.50

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No.: CACE/BBMP/JT/W No.04/2021-22 Date: 20.12.2021

KERB STONE (CORE) TEST REPORT

Client	:	: **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	: **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore
Name of Work	:	: Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.
No.of Sample Tested	:	01
Date of Testing	:	20.12.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.365	2383.24	1.56	0.952	26.20	13.34	14.41	13.73	17.16
2	50.00	80.00	0.379	2412.79	1.60	0.957	27.90	14.21	15.35	14.68	18.35
3	50.00	79.00	0.371	2391.76	1.58	0.955	26.90	13.70	14.80	14.12	17.66

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Job No: CACE/BBMP/JT/W No.04/2021-22

Date 28.12.2021

TEST REPORT ON VITRIFIED TILES

*Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

*Contractor : **Sri. Jayanth. T S/o Tulasi Krishana. P,** Bangalore

*Name of the work : Construction of Compositing pits at parks in ward no.04 of Yelahanka Satellite Town Sub Division.

Technical Reference : IS: 13630 - 2006 - Method of Testing Designer Tiles
IS 15622 - 2006 - Specification of Designer Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 24.12.2021 to 28.12.2021

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	48.2	47.68	Average 47, individual minimum 44 N/mm^2
2	600 x 600 x 9.8	46.9		
3	600 x 600 x 9.9	47.2		
4	600 x 600 x 9.8	48.2		
5	600 x 600 x 9.8	47.9		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 9.8	No visible effect	
3	600 x 600 x 9.9	No visible effect	
4	600 x 600 x 9.8	No visible effect	
5	600 x 600 x 9.8	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 9.8	Stain Removed by Water	
3	600 x 600 x 9.9	Stain Removed by Water	
4	600 x 600 x 9.8	Stain Removed by Water	
5	600 x 600 x 9.8	Stain Removed by Water	

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